

Introduction to Javascript

April 14th, 2015

The Web (remember)

Deconstructing a URL

protocol

port

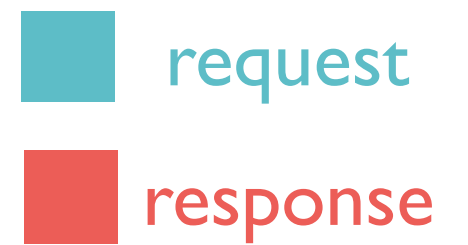
http://mysite.com:80/index.html

host

path

The diagram illustrates the components of the URL `http://mysite.com:80/index.html`. The `http` is labeled as the **protocol** in yellow. The `mysite.com` is labeled as the **host** in red and is underlined. The `:80` is labeled as the **port** in blue. The `/index.html` is labeled as the **path** in green. Brackets and curly braces are used to group these components under their respective labels.

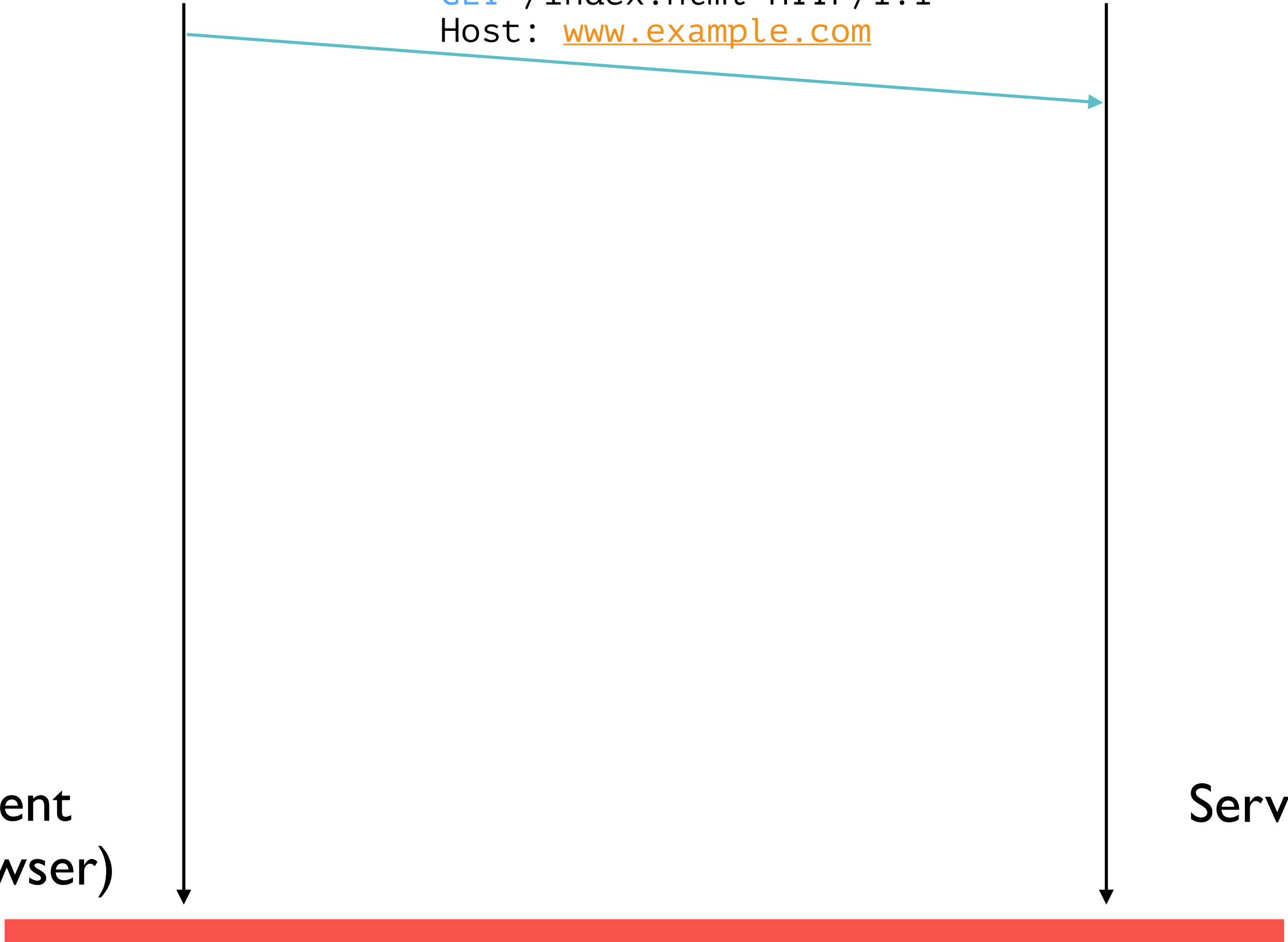
HTTP Lifecycle



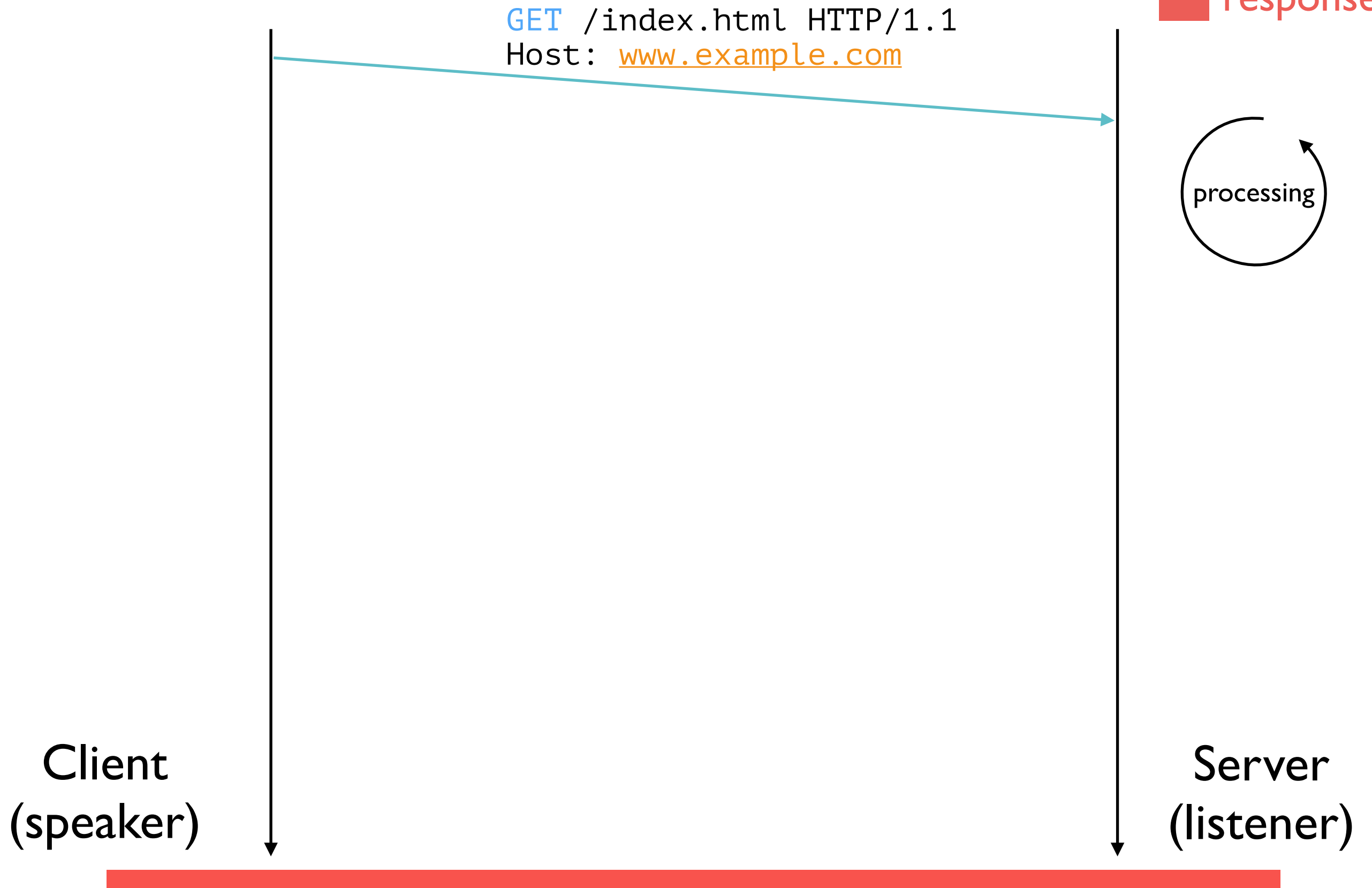
GET /index.html HTTP/1.1
Host: www.example.com

Client
(browser)

Server

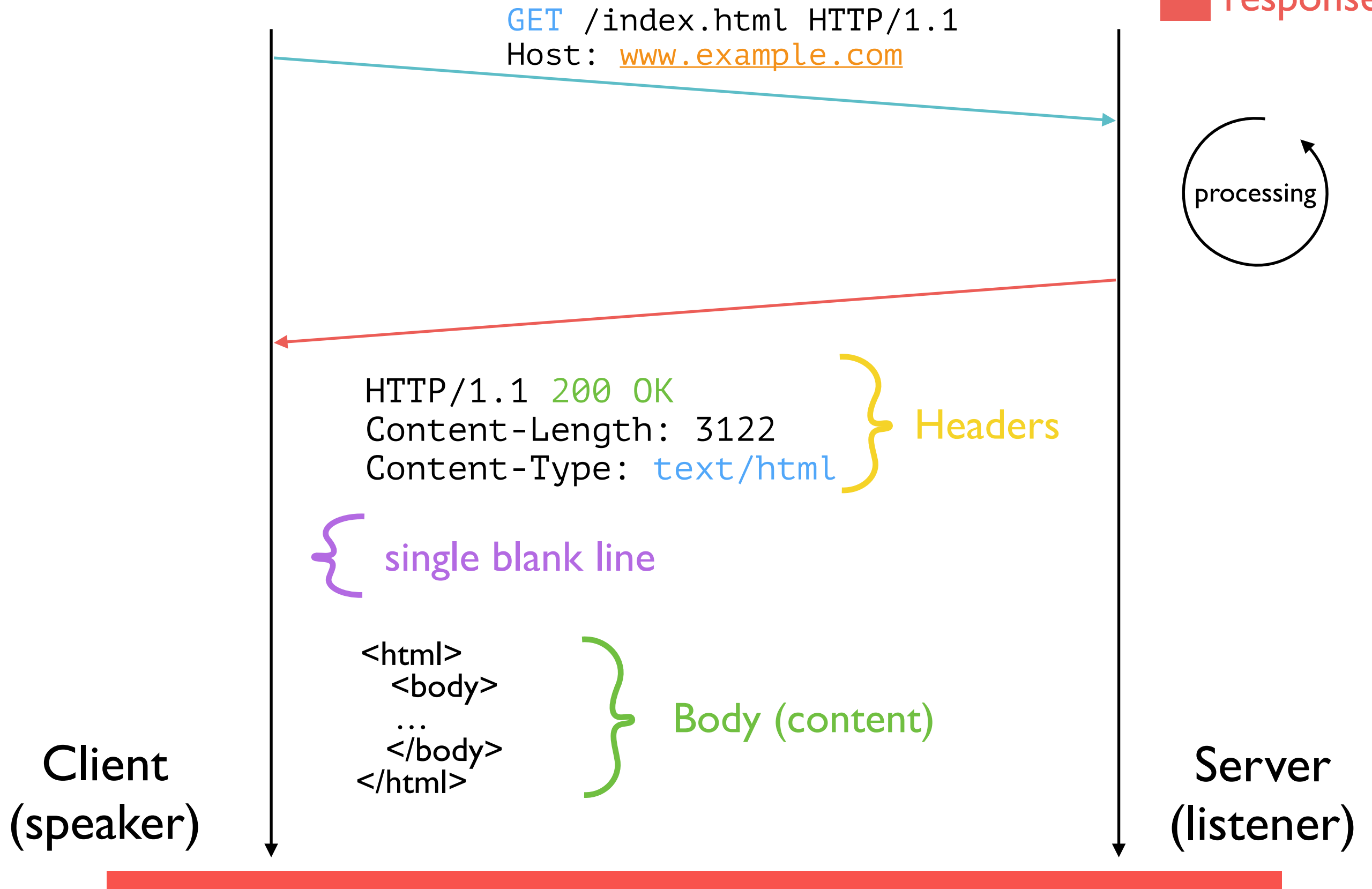


HTTP Lifecycle

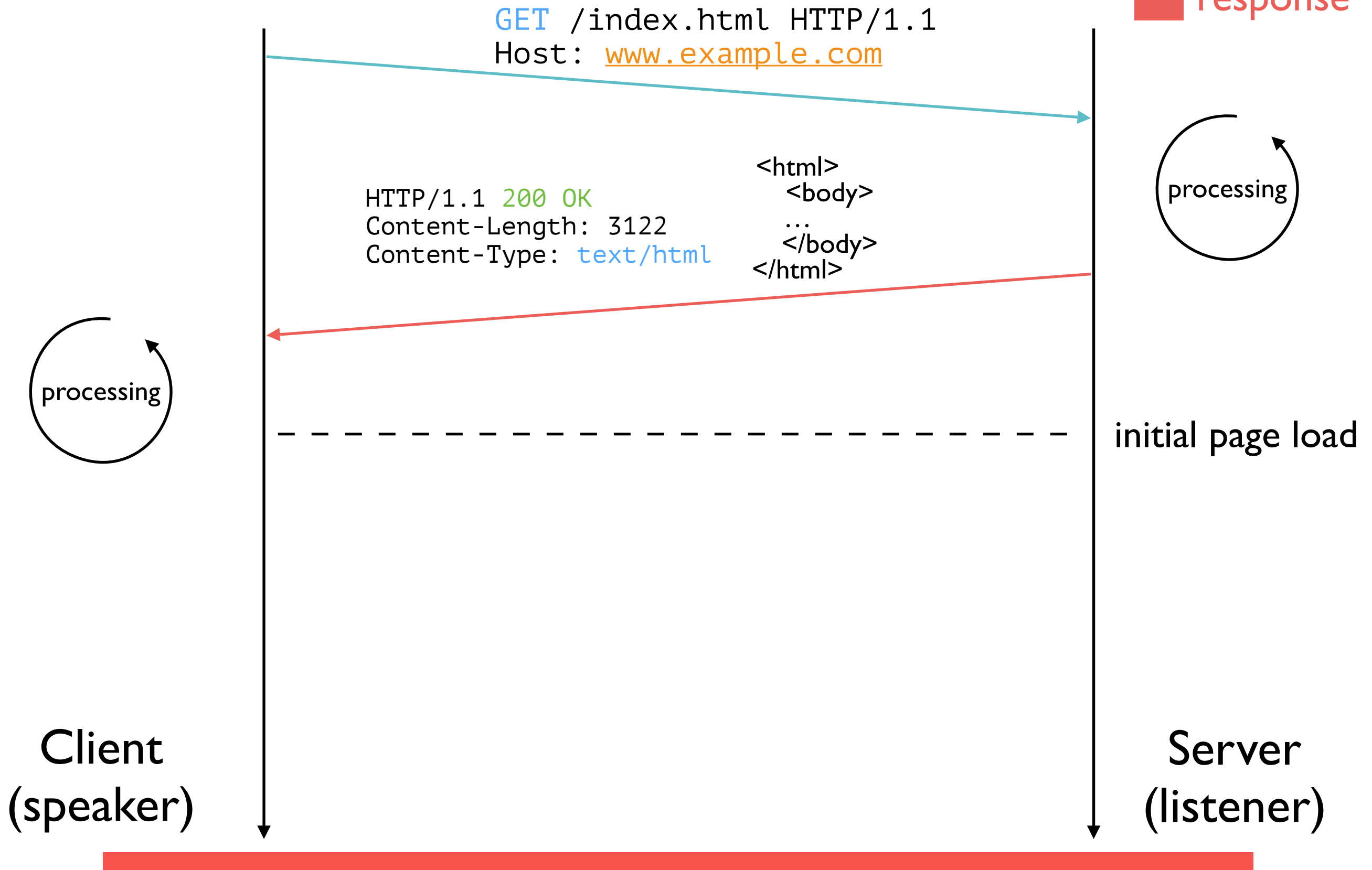
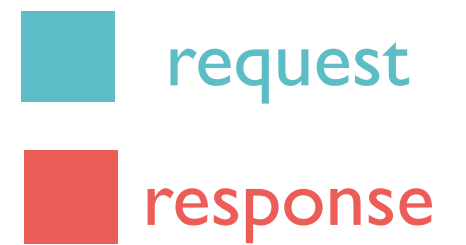


HTTP Lifecycle

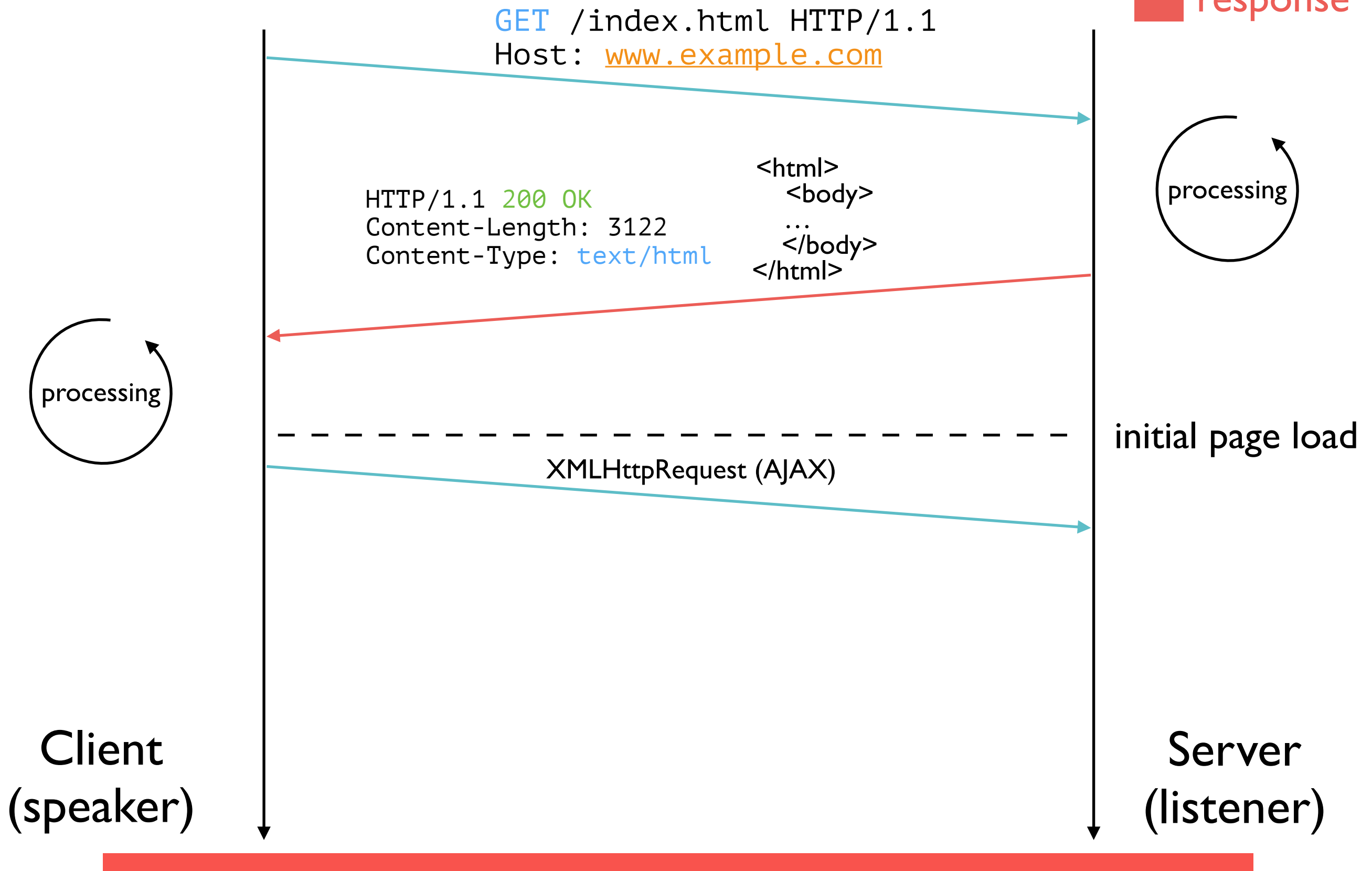
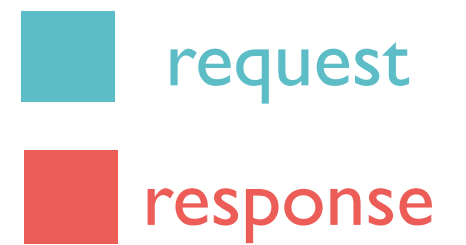
request
response



HTTP Lifecycle

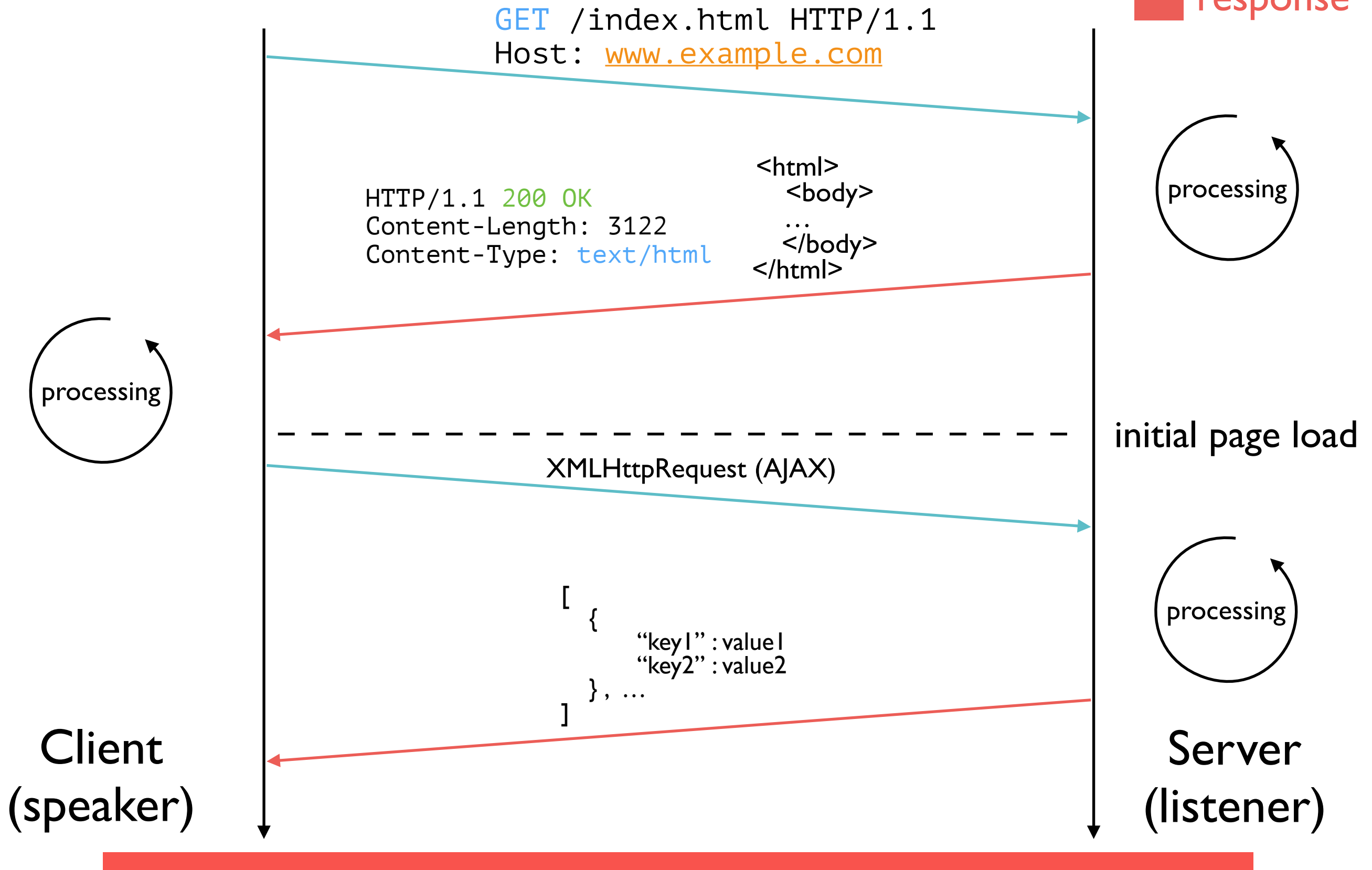


HTTP Lifecycle



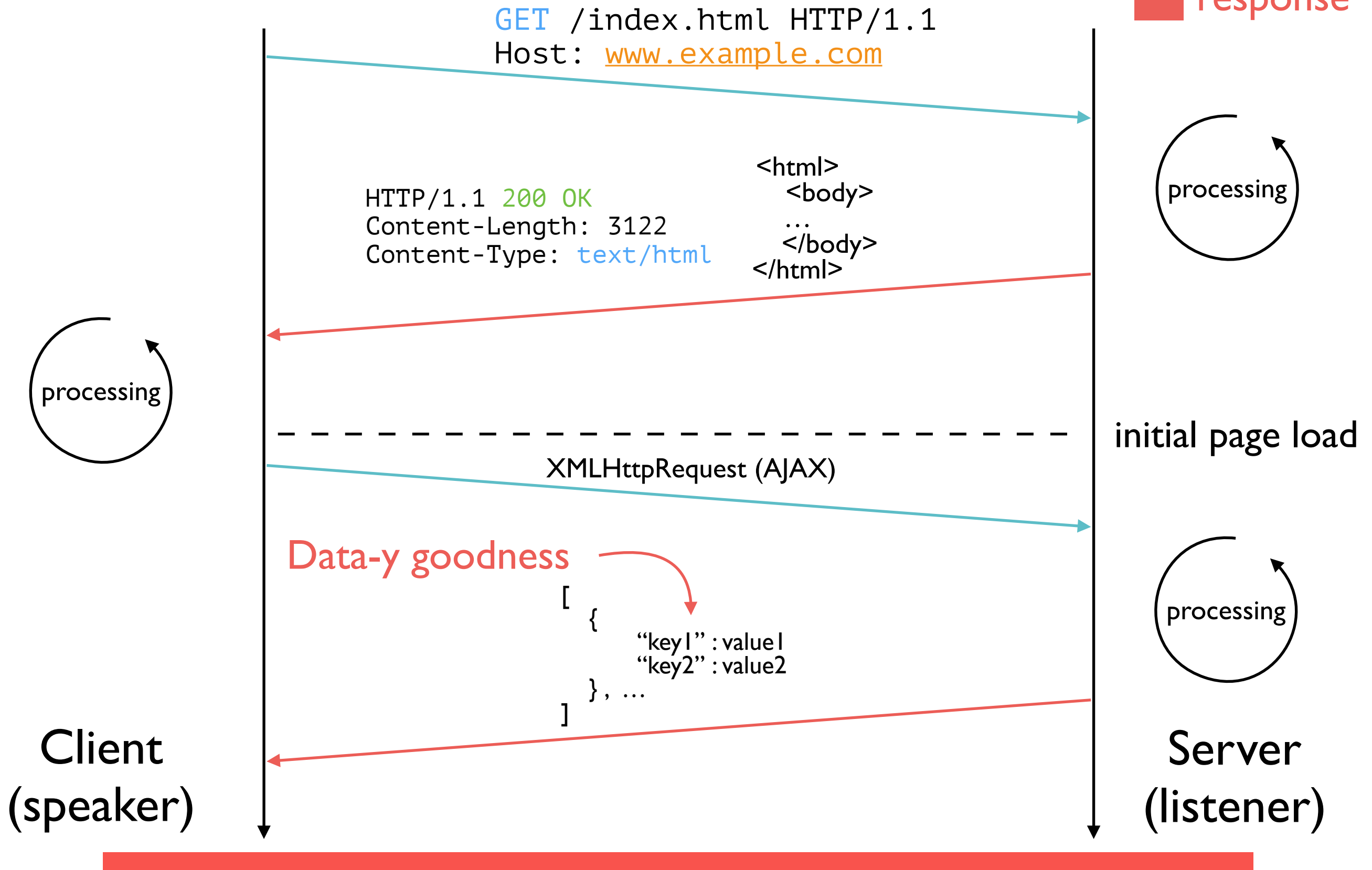
HTTP Lifecycle

request
response



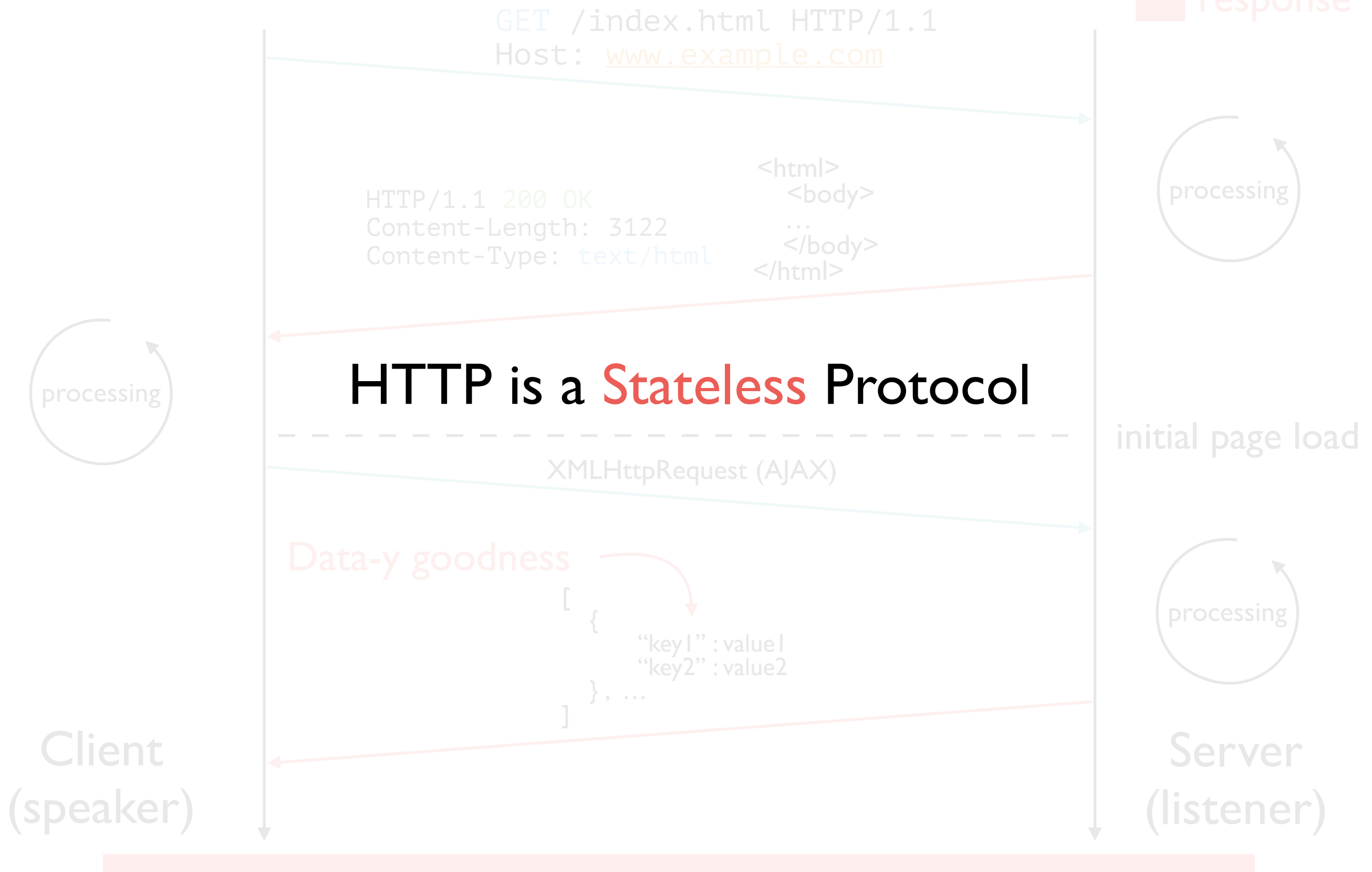
HTTP Lifecycle

request
response



HTTP Lifecycle

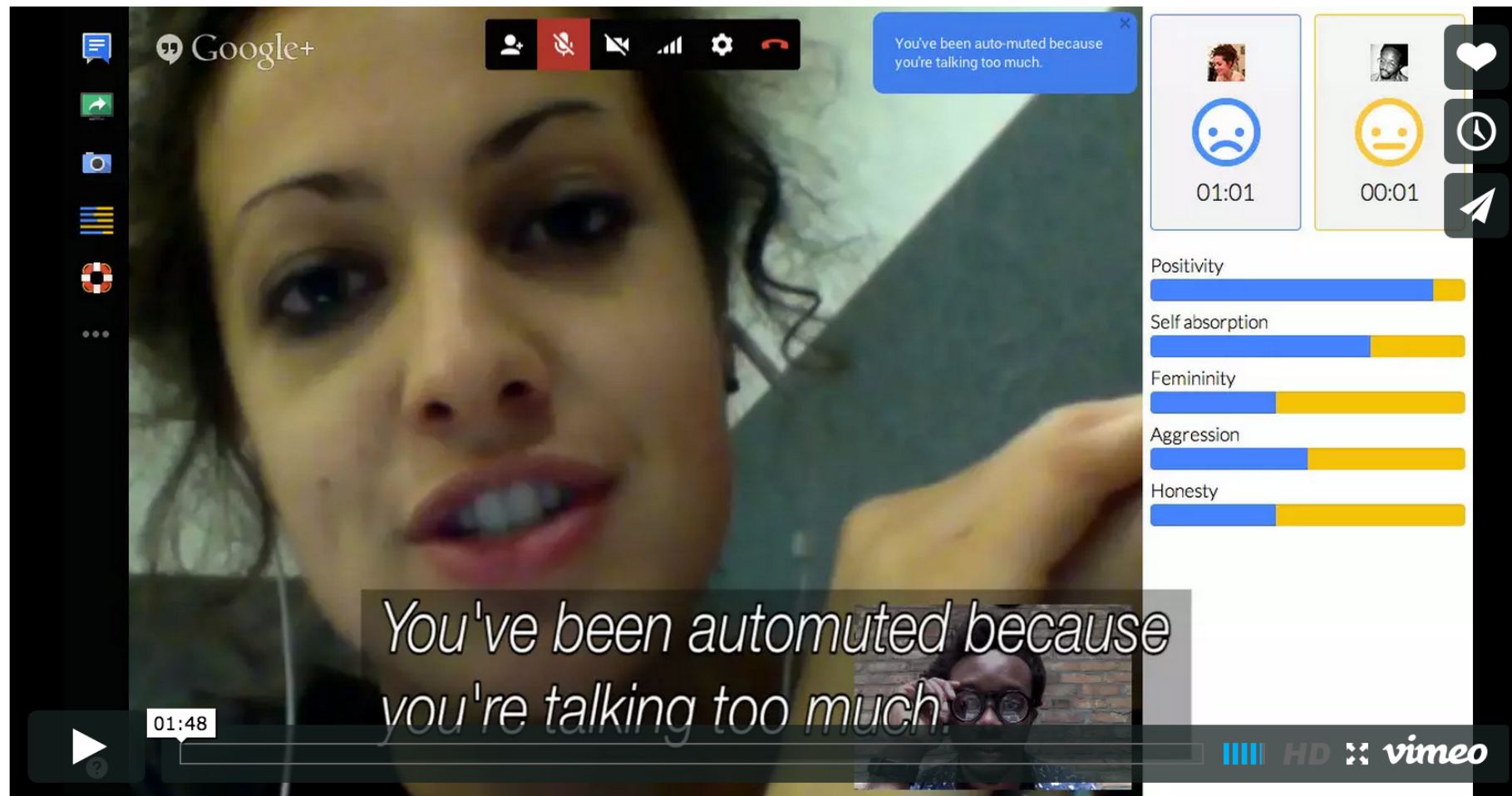
request
response



Javascript: The Language of the Web

US+

A Google Hangout app that analyzes speech and facial expression to improve conversation. [Try it now!](#)



A collaboration between [Lauren McCarthy](#) and [Kyle McDonald](#).

The linguistic analysis is based on [Linguistic Inquiry Word Count \(LIWC\)](#) and Linguistic Style Matching (LSM), and inspired by work done with [Sosolimited](#).

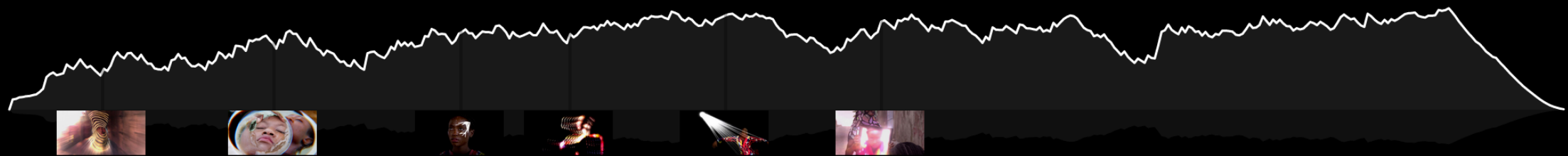
Thank you: Erqi Pollom, Susan Lee, Aurelia Moser, Ekene Ijeoma, Jamie Zigelbaum, David Leonard.

- Image Processing
 - Facial Recognition (getUserMedia + clmtracker.js)
 - Emotion Detection
- Speech
 - Speech -> Text (speech API)
 - NLP (word parsing, sentiment, etc.)

Reflektor

JUST A REFLEKTOR - Technology

Explore the interactive video elements from JUST A REFLEKTOR here on the technology page. Video clips and effects are shown as nodes. Click a thumbnail below to explore effects used in the film:



- Phone Interaction
 - getUserMedia
 - device orientation (WebSockets)
- Interactive Video
 - Web Audio
 - three.js + WebGL

Exercise

Open up `find_that_file.md`

- create a structure according to this file for our rock paper scissors game
 - create an external file to store the logic of our game
 - write a single `console.log()` message to make sure it works

Evented? Say What!?!

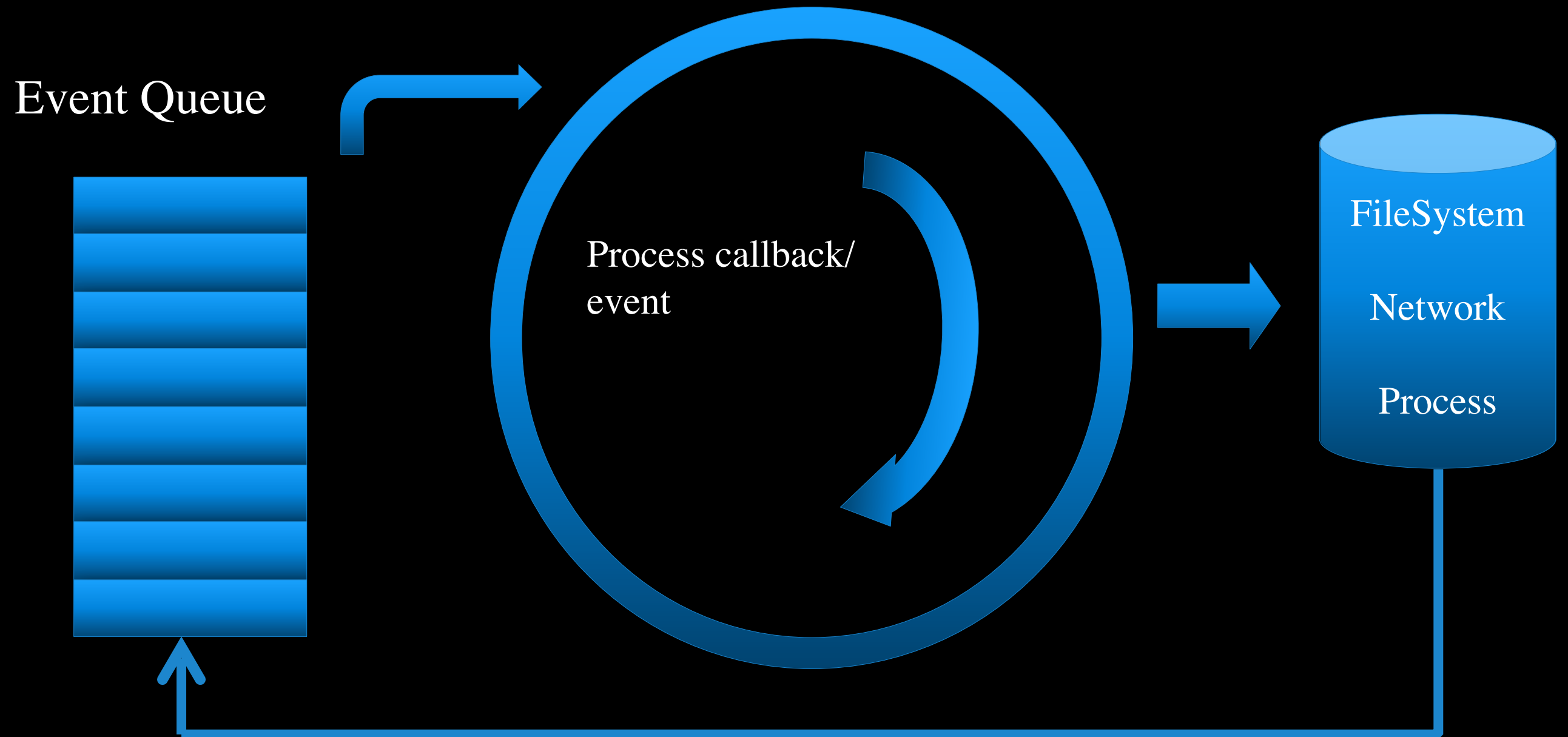
Imagine a Food cart... your favorite food cart! On a nice little Wednesday.



The Event loop

```
while (true) {  
    eventQueue.forEach.pop()  
    // execute code here  
    tick++;  
}
```

In Pictures



Exercise

rock_paper_scissors.md

Exercise

To Have some fun with jQuery, let us remix the web!

- Go to the NYT.com
 - Open the Chrome console and paste in the jQuery library
 - Change the headline of the top news article
 - Find a funny GIF and insert it into the page under your new headline